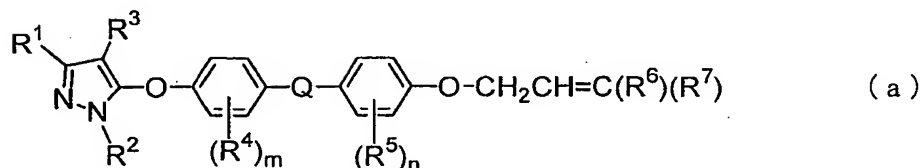


## CLAIMS

1. A pyrazole compound represented by the formula(a):



5 wherein,

R<sup>1</sup> represents a hydrogen atom, a C1 to C4 alkyl group or a trifluoromethyl group;

R<sup>2</sup> represents a C1 to C4 alkyl group;

R<sup>3</sup> represents a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group, a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1 to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a halogen atom or a cyano group;

R<sup>4</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

m represents an integer of 0 to 4 and when m is an integer of 2 to 4, each of R<sup>4</sup>s may be the same or different;

R<sup>5</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

n represents an integer of 0 to 4 and when n is an integer of 2 to 4, each of R<sup>5</sup>s may be the same or different;

each of R<sup>6</sup> and R<sup>7</sup> may be the same or different and represents a hydrogen atom, a halogen atom or a methyl group;

Q represents an oxygen atom, a sulfur atom or a C1 to C5 alkylidene.

- 5     2.     The pyrazole compound according to claim 1, wherein  
R<sup>1</sup> is a C1 to C4 alkyl group or a trifluoromethyl group;  
R<sup>2</sup> is a C1 to C4 alkyl group;  
R<sup>3</sup> is a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl  
group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group,  
10     a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1  
to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2  
to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group,  
a C4 to C6 haloalkenyloxycarbonyl group or a cyano group;  
R<sup>4</sup> is a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy  
15     group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;  
m is an integer of 0 to 4 and when m is an integer of 2 to 4,  
each of R<sup>4</sup>s may be the same or different;  
R<sup>5</sup> is a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy  
group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;  
20     n is an integer of 0 to 4 and when n is an integer of 2 to 4,  
each of R<sup>5</sup>s may be the same or different;  
each of R<sup>6</sup> and R<sup>7</sup> may be the same or different and is a hydrogen  
atom, a halogen atom or a methyl group;  
Q represents an oxygen atom in the formula (a).

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3.     The pyrazole compound according to claim 1, wherein  
R<sup>3</sup> is a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2  
to C6 alkenyl group or a C2 to C6 alkynyl group in the formula

(a).

4. The pyrazole compound according to claim 1, wherein  $R^3$  is a halogen atom in the formula (a).

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5. The pyrazole compound according to claim 1, wherein  $R^1$  is a C1 to C4 alkyl group or trifluoromethyl group in the formula (a).

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6. The pyrazole compound according to claim 1, wherein  $R^1$  is a methyl group in the formula (a).

7. The pyrazole compound according to claim 1, wherein Q is an oxygen atom in the formula (a).

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8. The pyrazole compound according to claim 1, wherein m is an integer of 0 in the formula (a).

9. The pyrazole compound according to claim 1, wherein n is an integer of 0 in the formula (a).

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10. The pyrazole compound according to claim 1, wherein m is an integer of 0 and n is an integer of 0 in the formula (a).

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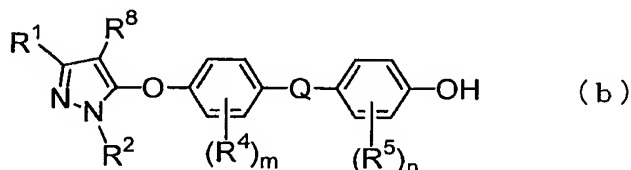
11. The pyrazole compound according to claim 1, wherein  $R^6$  and  $R^7$  are chlorine atoms in the formula (a).

12. A noxious arthropod pests controlling composition comprising the pyrazole compound according to claim 1 as an active ingredient and an inert carrier.

5 13. A method for controlling noxious arthropod pests comprising applying an effective amount of the pyrazole compound according to claim 1 to noxious arthropod pests or habitat noxious arthropod pests.

10 14. A use of the pyrazole compound according to claim 1 as a noxious arthropod pests controlling composition.

15. A compound of formula (b):



15 wherein,

$R^1$  represents a hydrogen atom, a C1 to C4 alkyl group or a trifluoromethyl group;

$R^2$  represents a C1 to C4 alkyl group;

20  $R^8$  represents a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group, a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1 to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a carboxyl group,  
25 a halogen atom or a cyano group;

R<sup>4</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

m represents an integer of 0 to 4 and when m is an integer of 2 to 4, each of R<sup>4</sup>s may be the same or different;

R<sup>5</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

n represents an integer of 0 to 4 and when n is an integer of 2 to 4, each of R<sup>5</sup>s may be the same or different;

Q represents an oxygen atom, a sulfur atom or a C1 to C5 alkylidene group.

16. The compound according to claim 15, wherein R<sup>8</sup> is a C1 to C6 alkyl group, a C2 to C6 alkenyl group, a C2 to C6 alkynyl group or a halogen atom in the formula (b).